## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **LISTING OF CLAIMS:**

#### 1-4. Cancelled

5. (Previously Presented) A local RF receiver and baseband out intelligent device system for use in transmitting digital information on an RF carrier through a wideband distribution network, comprising:

at least one addressable device having at least one input and at least one output;

a wideband distribution unit that receives a signal, which signal includes at least a digital signal portion, from the output of said at least one addressable device; and

an intelligent device that receives, from the wideband distribution unit, a modulated RF signal carrying at least the digital signal portion thereon, wherein said intelligent device splits an IP portion from a non-IP signal portion of the digital signal portion, wherein said intelligent device removes the modulated RF carrier from the IP portion and sends the IP potion signal to the input of at least one addressable device, and wherein said intelligent device sends the non-IP signal portion to at least one standard outlet, said intelligent device comprising:

a demodulator that receives the modulated RF digital portion from said wideband distribution unit;

a first digital combiner that combines at least two demodulated digital signal portions from said demodulator into one high speed digital transmission;

an RF splitter connected to the wideband distribution unit, which RF splitter splits the modulated RF signal; and

at least two RF bandpass filters, wherein the first bandpass filter receives the modulated RF signal from said RF splitter and passes the IP signal portion of the modulated RF signal to said demodulator for output to the at least one addressable device, and wherein the second bandpass filter receives the modulated RF signal from said RF splitter and passes the non-IP signal portion of the modulated RF signal to the at least one standard outlet.

6. (Previously Presented) The local RF receiver/baseband out intelligent device system of claim 5, wherein said intelligent device further comprises: at least one DSP, wherein said DSP controls said demodulator based on an IP address associated with the IP signal portion of the modulated RF signal and said at least two RF bandpass filters.

Second Claim 6. (Previously Cancelled).

7. - 21. (Previously Cancelled).

22. (Previously Presented) An intelligent device system for local sending and receiving for use in transmitting digital information on an RF carrier through a wideband distribution network, comprising:

at least one addressable device having at least one input and at least one output, wherein at least one of said at least one addressable devices generates an incoming signal, wherein the incoming signal includes at least a digital signal portion;

an intelligent device that generates a modulated RF signal carrying the digital signal portion thereon;

a wideband distribution unit that receives the modulated RF signal; and at least one DSP, wherein said DSP controls the demodulation, and the splitting of the modulated RF signal by controlling at least two RF bandpass filters, wherein said DSP receives RF channel in use information from an RF channel detector, and receives traffic data, and wherein said DSP uses the RF channel in use information to select the RF modulated carrier, an RF carrier channel width, and an RF guardband width,

wherein said intelligent device receives a modulated RF signal carrying an IP portion and non-IP signal portion of the digital signal portion thereon from said wideband distribution unit, wherein said intelligent device splits the IP signal portion from the non-IP signal portion, removes the RF carrier from the IP signal portion and sends the digital signal portion to the input of at least one of the at least one addressable device, and wherein said intelligent device sends the non-IP signal portion to at least one standard outlet.

23. (Currently Amended) A local RF receiver and baseband out and wireless intelligent device system for use in transmitting digital and receiving digital and analog information on an RF carrier through a wideband signal distribution network, comprising:

at least one addressable device having at least one input and at least one output;

a wideband distribution unit that receives a signal, which signal includes at least a digital signal portion, from the output of said at least one addressable device; [[and]]

an intelligent device that receives a modulated RF signal from the wideband distribution unit carrying an IP portion and a non-IP signal portion of the digital signal portion thereon, wherein said intelligent device splits the IP portion and the non-IP portion, which digital IP signal portion includes at least one wireless portion, and further splits the wireless portion from at least one non-wireless portion, wherein said intelligent device removes the modulated RF carrier from the IP portion and sends the IP signal portion to the input of at least one of the at least one addressable device, and wherein said intelligent device sends the non-IP signal portion to a standard outlet;

and a transcoder for sending the wireless portion from said RF splitter to a wireless port.

24. (Original) The system of claim 23, further comprising: a wireless demodulator for receiving transmissions from the wireless port, wherein said wireless demodulator is controlled by a DSP and sending those received wireless

transmissions to the digital combiner.

25. (Previously presented) An intelligent device system for local sending and receiving for use in transmitting digital information on an RF carrier through a wideband distribution network, comprising:

at least one addressable device having at least one input and at least one output, wherein at least one of said at least one addressable devices generates an incoming signal, wherein the incoming signal includes at least a digital signal portion;

an intelligent device that generates a modulated RF signal carrying the digital signal portion thereon;

a wideband distribution unit that receives the modulated RF signal;

wherein said intelligent device receives a modulated RF signal carrying an IP portion and a non-IP signal portion of the digital signal portion thereon from said wideband distribution unit, wherein said intelligent device splits the IP signal portion from a non-IP signal portion, which IP portion and non-IP digital signal portion include at least one wireless portion, and wherein said intelligent device splits the wireless portion from at least one non-wireless portion, wherein said intelligent device removes the modulated RF carrier from the IP signal portion and sends the IP signal portion to the input of at least one of the at least one addressable device, and wherein said intelligent device sends the non-IP signal portion to a standard outlet; and

a transcoder for sending the wireless portion to a wireless port.

- 26. (Original) The intelligent device system of claim 25, further comprising a wireless demodulator for receiving transmissions from the wireless port.
- 27. (Original) The intelligent device system of claim 26, further comprising a DSP, wherein said DSP controls said wireless demodulator.
- 28. (Currently Amended) An intelligent device system for remote sending and wireless sending and wireless receiving of IP and non-IP information on an RF carrier through a wideband signal distribution network, comprising:

at least one incoming signal generator, wherein said at least one incoming signal generator generates an incoming signal including at least a digital portion;

an intelligent device that generates a modulated RF signal carrying the digital portion thereon, said intelligent device having a wireless demodulator for receiving a wireless portion from a wireless port within said wireless device, wherein the wireless portion and a non-wireless portion are split by said intelligent device, and wherein the splitting is controlled by at least one digital signal processor (DSP);

a transcoder for sending [[a]] the wireless portion, which wireless portion includes at least a portion of the digital portion therein, an output to a wireless output device; and

a wideband distribution unit that receives [[a]] the non-wireless portion of the modulated RF signal; wherein the wireless portion and the non-wireless portion are split by said intelligent device, and wherein the splitting is controlled by at least one DSP.

- 29. (Previously Cancelled).
- 30. (Currently Amended) A method for transmitting digital information on an RF carrier through a wideband distribution network, comprising:

providing at least one addressable device having at least one input and at least one output;

receiving a signal at a wideband distribution unit from the output of said at least one addressable device, which signal includes at least an IP signal portion; and

receiving from the wideband distribution unit at an intelligent device, a modulated RF signal carrying the IP signal portion thereon and a non-IP signal portion thereon;

splitting and filtering by the intelligent device of the IP signal portion from a non-IP signal portion;

removing, by the intelligent device, [[of]] the modulated RF carrier from the IP signal portion;

sending, by the intelligent device, [[of]] the IP signal portion to the input of at least one of the at least one addressable device;

sending, by the intelligent device, [[of]] the non-signal signal portion to a standard outlet; and

sending, by the intelligent device, [[of]] a wireless portion of the IP signal portion to a wireless output device.

# 31. Previously Cancelled.

32. (Currently Amended) A method for transmitting digital information on an RF carrier through a wideband distribution network, comprising:

providing at least one addressable device having at least one input and at least one output;

generating, by at least one of said at least one addressable devices,

[[of]] an incoming signal, wherein the incoming signal includes at least a digital signal portion;

generating a modulated RF signal carrying the digital signal portion thereon;

receiving, at a wideband distribution unit, the modulated RF signal;
receiving, at an intelligent device, of modulated RF signal carrying the
digital signal portion, which digital signal portion comprises an IP portion and a nonIP signal portion, thereon from the wideband distribution unit;

splitting and filtering, by the intelligent device, [[of]] the IP signal portion from the non-IP signal portion;

removing, by the intelligent device, [[of]] the modulated RF carrier from the IP signal portion;

sending, by the intelligent device, [[of]] the digital signal portion to the input of at least one of the at least one addressable device;

sending, by the intelligent device, [[of]] the non-IP signal portion to a standard outlet; and

sending, by the intelligent device, [[of]] a wireless portion of the IP signal portion and the non-IP signal portion to a wireless output device.

## 33. - 34. Cancelled

35. (Currently Amended) An intelligent device for transmitting digital information on a radio frequency carrier through a wideband distribution network, comprising:

an input for receiving an incoming signal having a digital signal portion;

a modulator for modulating the incoming signal in to plural modulated radio frequency signals; and

a processor that determines a number of radio frequency channels to carry the plural modulated radio frequency signals and distributes the digital signal portion of the incoming signal using plural modulated radio frequency signals.

## 36. Cancelled

- 37. (Previously Presented) The device of claim 35, comprising:

  a radio frequency channel detector that generates radio frequency channel in use information.
- 38. (Previously Presented) The device of claim 35, wherein the processor uses the radio frequency channel in use information to select the radio

frequency channels, a radio frequency carrier channel width, and a radio frequency guardband width for distribution of portions of the incoming signal.

- 39. (Previously Presented) The device of claim 37, comprising:

  a traffic sensor that outputs traffic data to the processor for use by the processor in selecting a modulator to condition a portion of the incoming signal into a modulated radio frequency signal.
- 40. (Previously Presented) The device of claim 39, wherein the processor uses both the traffic data and the channels in use information to select the radio frequency channels for output of the modulated radio frequency signal.
- 41. (Currently Amended) A method of processing a signal, comprising:

  determining a volume of data in the received signal, wherein a portion of the signal is a digital signal;

selecting, by a processor, based on the volume of data determined by the signal traffic sensor, a number of modulators to modulate portions of the received signal and a number of radio frequency channels on which to output the modulated signal portions;

outputting the modulated signal portions on radio frequency channels;

updating the processor with information regarding the number of radio frequency channels in use.

and

- 42. (Previously Presented) The intelligent device system of claim 22, wherein said channel in use information includes an IP address associated said digital signal portion of said received modulated RF signal.
  - 43. (New) A method of processing a signal, comprising:

receiving a modulated RF signal;

differentiating the modulated RF signal according to information frequency of a carrier signal of the modulated RF signal to determine the number of channels in use, wherein a portion of the signal is differentiated into an IP portion;

controlling, by a processor, based on the number of channels in use, a number of demodulators to demodulate portions of the received signal and a number of radio frequency channels on which to output the demodulated signal portions;

outputting the demodulated signal portions on radio frequency channels.

44. (New) The device of claim 35, wherein the processor determines the number of radio frequency channels prior to the modulation.